



EARTH VENTURE MISSION-2 (EVM-2)

Welcome and Introductions for the EVM-2 AO Pre-Proposal Teleconference/Webex

Eric Ianson

Associate Director for Flight Programs

Earth Science Division

NASA Headquarters



Draft EVM-2 AO Prospective Bidders Teleconference/Webex: Presenters

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EVM-2 AO Pre-Proposal
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Eric Ianson	Assoc. Dir. for Flight Programs, ESD	NASA Headquarters
Ramesh Kakar	EVM-2 Program Scientist	NASA Headquarters
Christine Bonniksen	EVM-2 Program Executive	NASA Headquarters
Waldo Rodriguez	EVM-2 TMC Evaluation	NASA SOMA
Lawrence Friedl	Assoc. Dir., Applied Science, ESD	NASA Headquarters
Diane Hope	Asst, Engineer for Program Mgmt	ESSP Program Office
Matt Koeppe	International Relations Specialist	NASA Headquarters
David Flynn	Sr. International Relations Specialist	NASA Headquarters
Garrett Skrobat	Ast, Launch and Flight Operations	NASA LSP
Gary Morse	Mgr, SCAN Mission Commitment	NASA Headquarters



Draft EVM-2 AO Prospective Bidders Teleconference/Webex: Agenda

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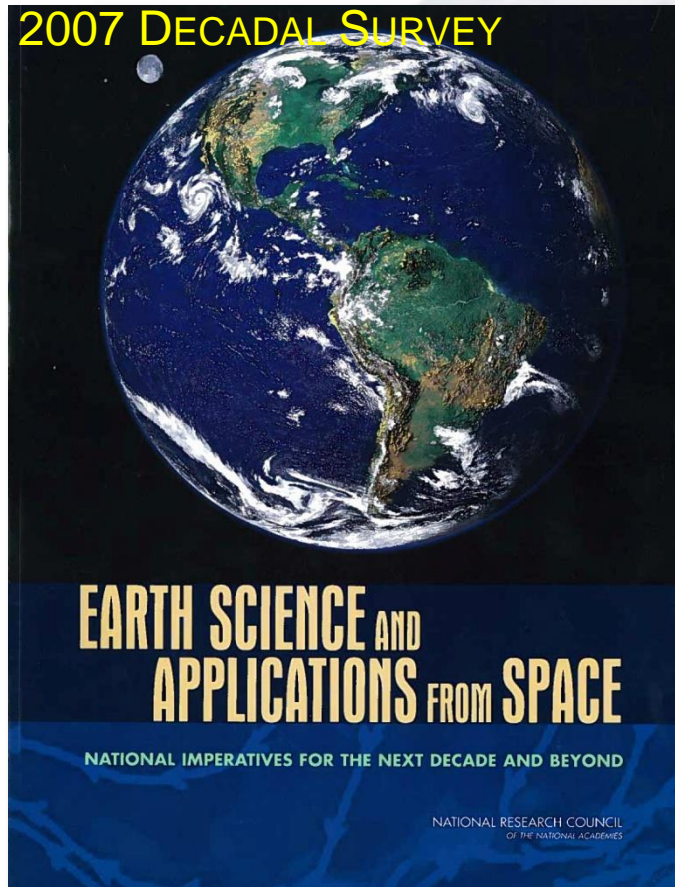
11:00	Welcome and Introduction	Eric Ianson, NASA HQ
11:15	Ground Rules	Ramesh Kaker, NASA HQ
11:25	EVM-2 AO Science Evaluation	Ramesh Kaker, NASA HQ
12:05	EVM-2 AO TMC Evaluation	Waldo Rodriguez, NASA SOMA
12:15	International Participation	Matt Koeppe, NASA HQ
12:35	Export Control	David Flynn, NASA HQ
1:05	ESSP Program Management of EVM-2 Mission	Diane Hope, ESSP
1:25	Applied Science Requirement	Lawrence Friedl, NASA HQ
1:45	Access to Space	Christine Bonniksen, NASA HQ
2:00	NASA-provided Launch Services	Garrett Skrobat, NASA LSP
2:25	Communication Services	Gary Morse, NASA HQ
2:45	Question and Answer	
3:00	End	



Earth Venture Initiated in Response to Earth Science Decadal Survey

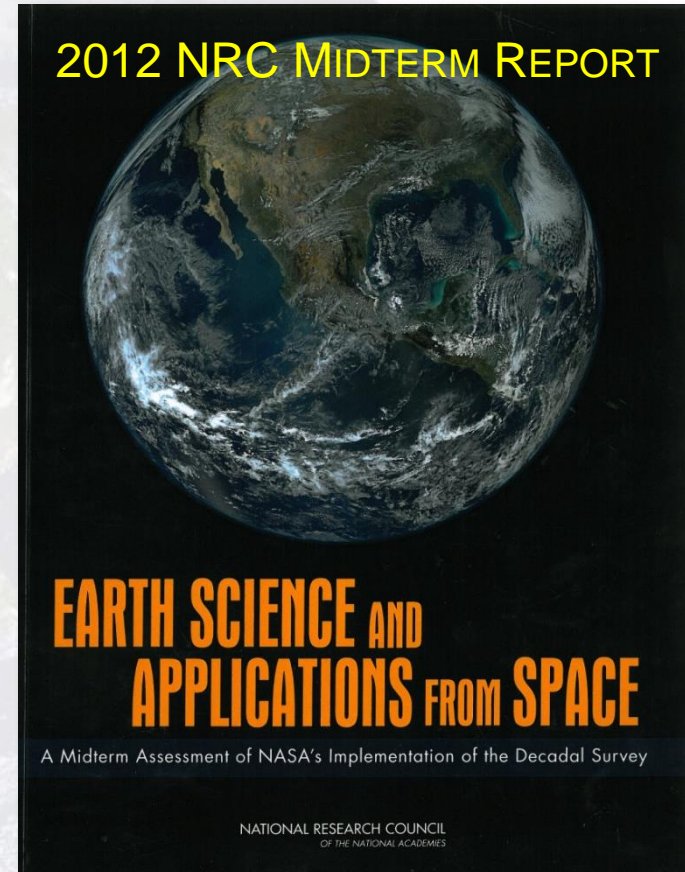
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2007 DECADAL SURVEY



- Recommended priorities for future missions and research
- 15 missions in small, medium and large categories
- **Earth Venture class of competed, innovative small missions**

2012 NRC MIDTERM REPORT



- Endorsed NASA's implementation
- **Recommended adding more Earth Venture small satellite missions**
- Encouraged rigorous cost control



Venture-Class

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- A sustained, successful Venture-class element is a priority from the Decadal Survey
 - Advances science/applications and promotes community involvement through frequent, regular proposal opportunities
 - Ensures overall program scientific flexibility and responsiveness through constrained development schedules
- Complement the systematic missions, provide flexibility to accommodate scientific advances and new implementation approaches
- ***All ongoing and planned investigations, solicitations, and selections are on track and fully funded***

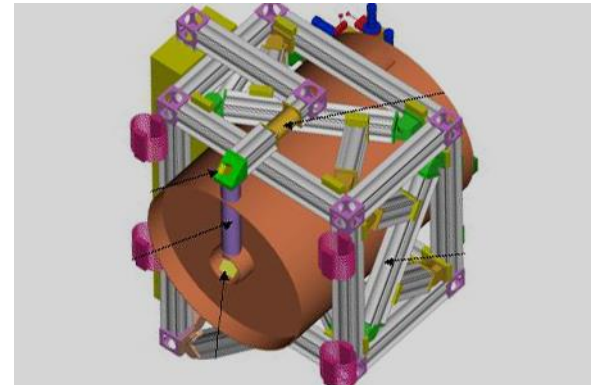
3 “Strands”



Suborbital



Small-sat/Missions



Instruments



Venture Class – Characteristics

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- **Science-driven, involving sustained (> seasonal) data acquisition**
 - Technology development/demonstration are not sufficient justifications
- **Frequent, regular solicitations**
 - Approximate four year frequency for EVM & EVS
 - Approximate 18 month frequency for solicitations for EV-I instruments
- **Competitively selected, PI-led**
- **Cost and schedule constrained**
 - Explicit total cost caps per investigation defined in each solicitation
 - 5-year total investigation term (data acquisition and analyses) for suborbital investigations
 - 5-year development time-to-launch for space missions – all science requirements must be achieved within nominal (typically 1-3 year) mission



Earth Science

NASA's Strategic Goal

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Understanding the complex, changing planet on which we live, how it supports life and how human activities affect its ability to do so in the future is one of the greatest intellectual challenges facing humanity. It is also one of the most important challenges for society as it seeks to achieve prosperity, health, and sustainability. - NRC, 2007

- NASA's Strategic Goal:
- “Advance understanding of Earth and develop technologies to improve the quality of life on our home planet.”



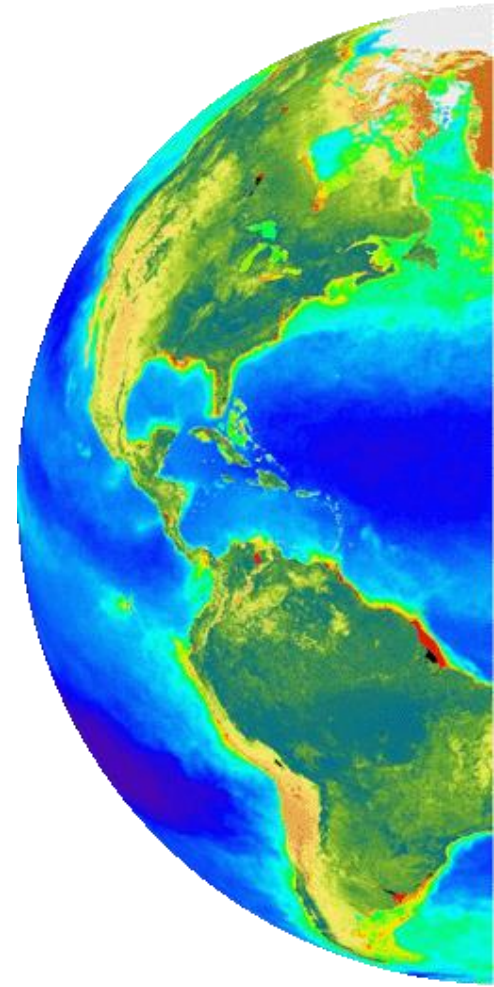


Earth Science Questions*

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- How is the global Earth system changing? (**Characterize**)
- What causes these changes in the Earth system? (**Understand**)
- How will the Earth system change in the future? (**Predict**)
- How can Earth system science provide societal benefit? (**Apply**)

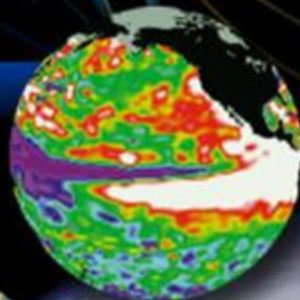
* NASA 2014 Science Plan (available through the EVM-2 Library)



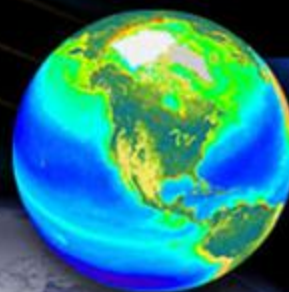
Earth System Science



Climate Variability
and Change



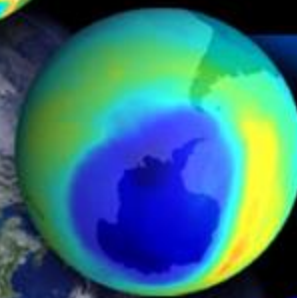
Carbon Cycle
and Ecosystems



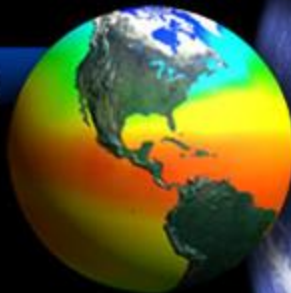
Earth Surface
and Interior



Atmospheric
Composition



Weather



Water &
Energy
Cycle

